

Product datasheet for **RG209620**

MDMX (MDM4) (NM_002393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDMX (MDM4) (NM_002393) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MDMX
Synonyms:	BMFS6; HDMX; MDMX; MRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209620 representing NM_002393
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACATCATTTTCCACCTCTGCTCAGTGTCAACATCTGACAGTCTTGCAGGATCTCTCTGGACAAA
 TCAATCAGGTACGACAAAACCTGCCCTTTTGAAGATTTGCATGCAGCAGGTGCCAAGGTGAAATGTT
 CACTGTTAAAGAGGTCATGCACTATTTAGGTGAGTACATAATGGTGAAGCAACTTTATGATCAGCAGGAG
 CAGCATATGGTATATTGTGGTGGAGATCTTTGGGAGAACTACTGGGACGTGAGACTTCTCCGTGAAAG
 ACCCAAGCCCTCTATGATATGCTAAGAAAGAATCTTGTCACTTTAGCCACTGCTACTACAGATGCTGC
 TCAGACTCTCGCTCTCGCACAGGATCACAGTATGGATATCCAAGTCAAGACCAACTGAAGCAAAGTGCA
 GAGGAAAGTTCCACTCCAGAAAAAGAACTACAGAAGACGATATCCCACACTGCCTACCTCAGAGCATA
 AATGCATACATTCTAGAGAAGATGAAGACTTAATTGAAAATTTAGCCCAAGATGAAACATCTAGGCTGGA
 CCTTGGATTTGAGGAGTGGGATGTAGCTGGCCTGCCTTGGTGGTTTTTAGGAAACTTGAGAAAGCAACTAT
 ACACCTAGAAGTAATGGCTCAACTGATTTACAGACAAATCAGGATGTGGTACTGCCATTGTTTCAGATA
 CTACAGATGACTTGTGGTTTTTGAATGAGTCAGTATCAGAGCAGTTAGGTGTTGGAATAAAAAGTTGAAGC
 TGCTGATACTGAACAAACAAGTGAAGAAGTAGGAAAAGTAAAGTGACAAAAAGGTGATTGAAGTGGAAAA
 AATGATGACCTGGAGGACTCTAAGTCTTAAGTATGATACCGATGTAGAGGTTACCTCTGAGGATGAGT
 GGCAGTGTACTGAATGCAAGAAATTTAACTCTCCAAGCAAGAGGTTACTGTTTTCGTTGTTGGCCTTGAG
 GAAGGATTGGTATTCAGATTGTTCAAAGTTAACCCATTCTCTCCACGTCTGATCACTGCCATACCT
 GAAAAGGAAAATGAAGGAAATGATGTCCCTGATTGTGCGAAGAACCATTTCGGCTCCTGTCGTTAGACCTA
 AAGATGCGTATATAAAGAAAGAAAACCTCAAACCTTTTGGATCCCTGCAACTCAGTGGAAATCTTGGATT
 GGCTCACAGTTCTGAAAGCCAAGAGACCATCTCAAGCATGGGAGAACAGTTAGATAACCTTTCTGAACAG
 AGAACAGATACAGAAAACATGGAGGATTGCCAGAACTCTTTGAAGCCATGTAGCTTATGTGAGAAAAGAC
 CACGAGACGGGAACATTATTCATGGAAGGACGGGCCATCTGTCACTTGTTCCTGTCGAGAAAGACT
 AAAGAAGGCTGGGGCTTCATGCCCTATTTGCAAGAAAGAGATTCAGCTGGTTATTAAGGTTTTTATAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209620 representing NM_002393
 Red=Cloning site Green=Tags(s)

MTSFSTSAQCSTSDSACRISPGQINQVRPKLPLKILHAAGAQGEMFTVKEVMHYLGQYIMVKQLYDQQE
 QHMVYCGDLLGELLGRQSFVSKDPSPLYDMLRKNLVLATATDAAQTLALAQDHSMDIPSDQLKQSA
 EESSTSRKRTTEDDIPTLPTSEHKCIHSREDEDLIENLAQDETSRLDLGFEEDVAGLPWWFLGNLRSNY
 TPRSNGSTDLQTNQDVGTAVSDTTDDLWFLNESVSEQLGVGKIKVEAADTEQTSEEVGKVSDDKVKIEVGK
 NDDLEDSKSLSDTDVEVTSEDEWQCTECKKFNSPSKRYCFRCWALRKDWYSDCSKLTSLSTSDITAIP
 EKENEENDVPDCRRTISAPVVRPKDAYIKKENSFLDPCNSVEFLDLAHSSESQETISSMGEQLDNLSEQ
 RTDTENMEDCQNLKPCSLCEKRPDGNIIHGRTGHLVTCFHCARRLKKAGASCPICKKEIQLVIKVFIA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002393

ORF Size: 1470 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

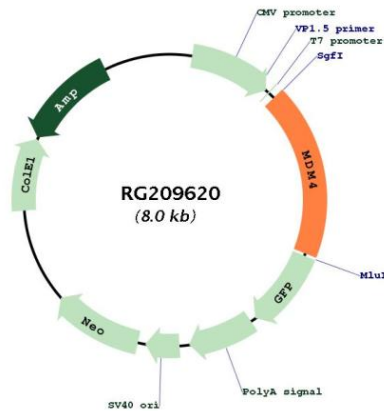
Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002393.5](#)
RefSeq Size: 2554 bp
RefSeq ORF: 1473 bp
Locus ID: 4194
UniProt ID: [O15151](#)
Cytogenetics: 1q32.1
Domains: SWIB
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: p53 signaling pathway
Gene Summary:

This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RG209620